## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
Lī	0	(virtual near5 volume) same (proimit\$5) near5 (information input command)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 13:15
L2	0	(virtual near5 volume) same (prximit\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:15
L3	10	(virtual near5 volume) same (proximit\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:19
L4	0	(virtual near5 volume) same (proximit\$5) near5 (information input command)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:15
L5	0	(virtual near5 volume) same (proximat\$5) near5 (information input command)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 13:15
L6	9168	(copy) same (operation funct\$5) same (proximit\$5 proximat\$5 close\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:22
L7	1216	(copy) near3 (operation funct\$5) same (proximit\$5 proximat\$5 close\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 13:23
L8	63	(copy) near3 (operation funct\$5) same (proximit\$5 proximat\$5 close\$5) and (virtual physical) near3 (volume file storage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:41
L9	7304	711/111,6,154,217,209,203,147,162,130.ccls	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:46
L10	3983	714/6,27,42,54,7,710,8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:46

# **EAST Search History**

L11	8211	707/1,204,202,203.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:47
L12	572	(((real adj volume) (physical adj volume)) and ((logical adj volume) (virtual adj volume))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 16:56
L13	158	L9 and ((real adj volume) (physical adj volume)) and ((logical adj volume) (virtual adj volume))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:49
L14	.45	L10 and ((real adj.volume) (physical adj.volume)) and ((logical adj.volume) (virtual adj.volume))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 13:49
L15	62	L11 and ((real adj volume) (physical adj volume)) and ((logical adj volume) (virtual adj volume))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 13:50
L16	87	"709"/\$.ccls: and ((real adj volume) (physical adj volume)) and ((logical adj volume) (virtual adj volume))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 16:07
L18	216	"709"/\$.ccls. and ((real adj (storage)) (physical adj (storage))) and ((logical adj (storage)) (virtual adj (storage)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	OR	ON	2006/06/22 16:11
L20	364	L9 and ((real adj (storage)) (physical adj (storage))) and ((logical adj (storage)) (virtual adj (storage)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM: TDB	OR	ON	2006/06/22 16:40
L21	144	L10 and ((real adj (storage)) (physical adj (storage))) and ((logical adj (storage)) (virtual adj (storage)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 16:47
L22	122	L11 and ((real adj (storage)) (physical adj (storage))) and ((logical adj (storage))) (virtual adj (storage)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 16:41
L23	122	L11 and ((real adj (storage)) (physical adj (storage))) and ((logical adj (storage)) (virtual adj (storage)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 16:47

## **EAST Search History**

L24	5	((real adj volume) (physical adj volume)) and ((logical adj volume) (virtual adj volume)) same (proximity vicinity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/22 16:58
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1. The storage server as virtual volume manager

Buck, A.L.; Coyne, R.A.;

Mass Storage Systems, 1993, 'Putting all that Data to Work', Proceedings, Tw

Symposium on

26-29 April 1993 Page(s):79 - 86

Digital Object Identifier 10.1109/MASS.1993.289774

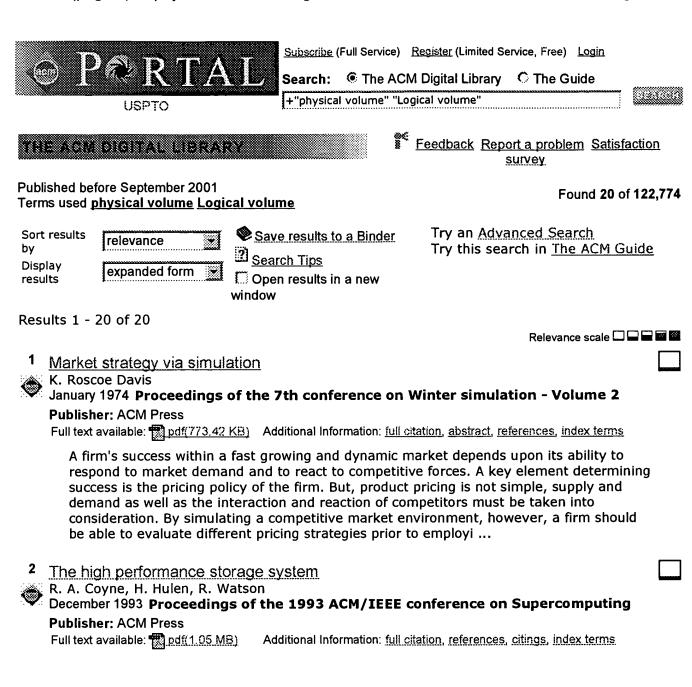
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3 Sorting nonredundant files—techniques used in the FACT compiler
John B. Glore

May 1963 Communications of the ACM, Volume 6 Issue 5

**Publisher: ACM Press** 

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, citings

Some typical file structures, including some called "non-redundant," are examined, and the methods used in FACT to sort such files are discussed.

4 IEEE storage system standards

Bruce K. Haddon
January 2001 ACM SIGOPS Operating Systems Review, Volume 35 Issue 1

Publisher: ACM Press
Full text available: pdf(801.29 KB) Additional Information: full citation, index terms

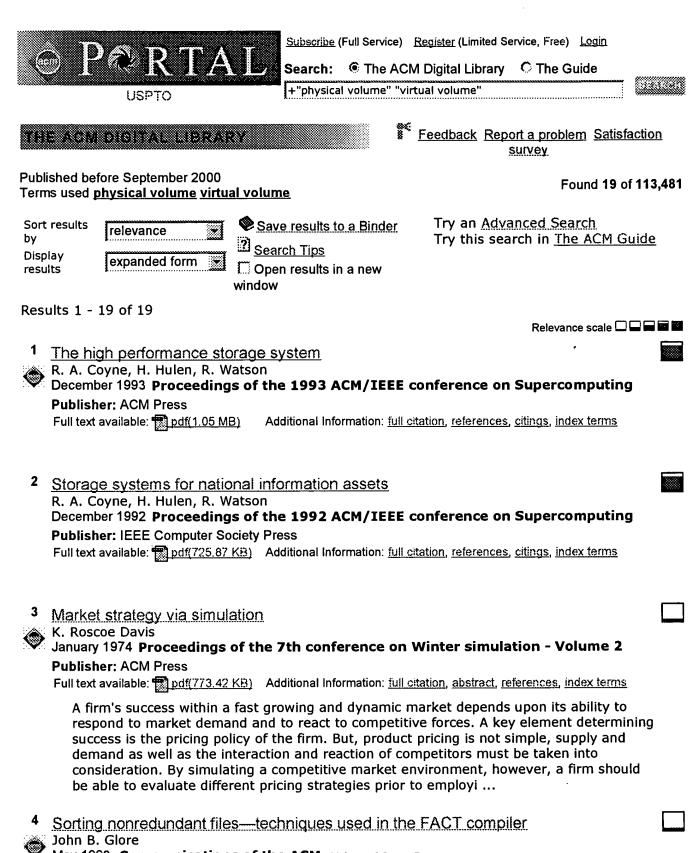
5 <b>②</b>	Pilot: an operating system for a personal computer David D. Redell, Yogen K. Dalal, Thomas R. Horsley, Hugh C. Lauer, William C. Lynch, Paul R. McJones, Hal G. Murray, Stephen C. Purcell February 1980 Communications of the ACM, Volume 23 Issue 2					
	Publisher: ACM Press Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings					
	<b>Keywords</b> : file, high-level language, modular programming, network, operating system, personal computer, process, system structure, virtual memory					
6	Creating volume models from edge-vertex graphs Patrick M. Hanrahan July 1982 ACM SIGGRAPH Computer Graphics , Proceedings of the 9th annual					
	conference on Computer graphics and interactive techniques SIGGRAPH '82, Volume 16 Issue 3 Publisher: ACM Press					
	Full text available: pdf(740.65 KB)  Additional Information: full citation, abstract, references, citings, index terms					
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	Full text available: pdf(1.17 MB)  Additional Information: full citation, abstract, references, citings, index terms					
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8	Highly available systems for database applications Won Kim					
	March 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 1  Publisher: ACM Press					
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	As users entrust more and more of their applications to computer systems, the need for systems that are continuously operational (24 hours per day) has become even greater. This paper presents a survey and analysis of representative architectures and techniques that have been developed for constructing highly available systems for database applications. It then proposes a design of a distributed software subsystem that can serve					

as a unified framework for constructing database applica ... Storage systems for national information assets R. A. Coyne, H. Hulen, R. Watson December 1992 Proceedings of the 1992 ACM/IEEE conference on Supercomputing Publisher: IEEE Computer Society Press Full text available: pdf(725.87 KB) Additional Information: full citation, references, citings, index terms 10 Optical storage of page images and pictorial data - opportunities and needed advances in information retrieval William R. Nugent, Jessica R. Harding October 1983 ACM SIGCOMM Computer Communication Review, Proceedings of the eighth symposium on Data communications SIGCOMM '83, Volume 13 Issue **Publisher: ACM Press** Full text available: ndf(396.98 KB) Additional Information: full citation, abstract, references, index terms We describe two current development projects at the Library of Congress using highdensity optical storage, both of which require more advanced and improved computerbased information retrieval methodologies than existing bibliographic retrieval systems. A much greater emphasis will be placed on the information content of the articles rather than on the broad subject categories in general use for computer retrieval citations to book materials. Needed approaches include the linking of select ... 11 Functional optimization for fair surface design Henry P. Moreton, Carlo H. Séquin July 1992 ACM SIGGRAPH Computer Graphics, Proceedings of the 19th annual conference on Computer graphics and interactive techniques SIGGRAPH **'92**, Volume 26 Issue 2 Publisher: ACM Press Full text available: pdf(5.51 MB) Additional Information: full citation, references, citings, index terms 12 The BBFS Filesystem Model Bruce K. Hillyer, Bethany S. Robinson April 1992 ACM SIGOPS Operating Systems Review, Volume 26 Issue 2 **Publisher: ACM Press** Full text available: pdf(92.83 KB) Additional Information: full citation, abstract BBFS is a broadband filesystem research effort to support emerging applications that place intense demands on communications, computation, and data storage. Past research often addresses these needs with new special-purpose filesystems, such as transactional filesystems, replicated filesystems, real-time filesystems, and multimedia filesystems. A goal of BBFS is to be extensible so new mechanisms can be incorporated into a stable filesystem model. 13 A methodology for creating user views in database design Veda C. Storey, Robert C. Goldstein September 1988 ACM Transactions on Database Systems (TODS), Volume 13 Issue 3 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.41 MB) terms, review The View Creation System (VCS) is an expert system that engages a user in a dialogue

about the information requirements for some application, develops an Entity-Relationship model for the user's database view, and then converts the E-R model to a set of Fourth Normal Form relations. This paper describes the knowledge base of VCS. That is, it presents a formal methodology, capable of mechanization as a computer program, for accepting requirements from a user, identifying and resolving incons ...

14	Codes for the Classical Membrane Problem	
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15	A hierarchical decomposition methodology for multistage clock circuits Gary Ellis, Lawrence T. Pileggi, Rob A. Rutenbar November 1997 Proceedings of the 1997 IEEE/ACM international conference on	
	Computer-aided design	
	Publisher: IEEE Computer Society	
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	This paper describes a novel methodology to automate the design of the interconnect distribution for multistage clock circuits. We introduce two key ideas. First, a hierarchical decomposition of the layout divides the problem into a set of local Steiner-wired latch clusters (to minimize and balance local capacitance) fed globally by a balanced binary tree (to maximize performance). Second, we recast the global clock distribution problem as a simultaneous optimization of clock topology, clock seg	
	<b>Keywords:</b> clock, routing, performance driven router, manufacturability, process variations	
16	TCP extensions for space communications	
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	The space communication environment and mobile and wireless communication environments show many similarities when observed from the perspective of a transport protocol. Both types of environments exhibit loss caused by data corruption and link outage, in addition to congestion-related loss. The constraints imposed by the two environments are also similar—power, weight, and physical volume of equipment are scarce resources. Finally, it is not uncommon for communication channel data ra	
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18	A fast Gibbs sampler for synthesizing constrained fractals  Baba C. Vemuri, Chhandomay Mandal	
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19	Optimization of custom MOS circuits by transistor sizing  Andrew R. Conn, Paula K. Coulman, Ruud A. Haring, Gregory L. Morrill, Chandu Visweswariah  January 1997 Proceedings of the 1996 IEEE/ACM international conference on  Computer-aided design	
	Publisher: IEEE Computer Society	
	Full text available: pdf(68.85 KB)  Additional Information: full citation, abstract, references, citings, index terms	
	Optimization of a circuit by transistor sizing is often a slow, tedious and iterative manual process which relies on designer intuition. Circuit simulation is carried out in the inner loop of this tuning procedure. Automating the transistor sizing process is an important step towards being able to rapidly design high-performance, custom circuits. JiffyTune is a new circuit optimization tool that automates the tuning task. Delay, rise/fall time, area and power targets are accommodated. Each (weig	
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	Free-form shape design using triangulated surfaces William Welch, Andrew Witkin July 1994 Proceedings of the 21st annual conference on Computer graphics and	
	interactive techniques	
	Publisher: ACM Press Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index ps(11.44 MB)	
	We present an approach to modeling with truly mutable yet completely controllable free- form surfaces of arbitrary topology. Surfaces may be pinned down at points and along curves, cut up and smoothly welded back together, and faired and reshaped in the large. This style of control is formulated as a constrained shape optimization, with minimization of squared principal curvatures yielding graceful shapes that are free of the parameterization worries accompanying many patch-based approaches	
	<b>Keywords</b> : Delaunay triangulation, adaptive meshing, fair surface design, functional minimization, polygonal models	
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May 1963 Communications of the ACM, Volume 6 Issue 5 Publisher: ACM Press

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1.34	Pilot: an operating system for a personal computer David D. Redell, Yogen K. Dalal, Thomas R. Horsley, Hugh C. Lauer, William C. Lynch, Paul R. McJones, Hal G. Murray, Stephen C. Purcell February 1980 Communications of the ACM, Volume 23 Issue 2	
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8	Highly available systems for database applications Won Kim March 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 1	
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as a unified framework for constructing database applica ... 9 Optical storage of page images and pictorial data - opportunities and needed advances in information retrieval William R. Nugent, Jessica R. Harding October 1983 ACM SIGCOMM Computer Communication Review, Proceedings of the eighth symposium on Data communications SIGCOMM '83, Volume 13 Issue **Publisher: ACM Press** Full text available: pdf(396.98 KB) Additional Information: full citation, abstract, references, index terms We describe two current development projects at the Library of Congress using highdensity optical storage, both of which require more advanced and improved computerbased information retrieval methodologies than existing bibliographic retrieval systems. A much greater emphasis will be placed on the information content of the articles rather than on the broad subject categories in general use for computer retrieval citations to book materials. Needed approaches include the linking of select ... 10 Functional optimization for fair surface design Henry P. Moreton, Carlo H. Séquin July 1992 ACM SIGGRAPH Computer Graphics, Proceedings of the 19th annual conference on Computer graphics and interactive techniques SIGGRAPH **'92**, Volume 26 Issue 2 Publisher: ACM Press Full text available: pdf(5.51 MB) Additional Information: full citation, references, citings, index terms 11 The BBFS Filesystem Model Bruce K. Hillyer, Bethany S. Robinson April 1992 ACM SIGOPS Operating Systems Review, Volume 26 Issue 2 **Publisher: ACM Press** Full text available: pdf(92.83 KB) Additional Information: full citation, abstract BBFS is a broadband filesystem research effort to support emerging applications that place intense demands on communications, computation, and data storage. Past research often addresses these needs with new special-purpose filesystems, such as transactional filesystems, replicated filesystems, real-time filesystems, and multimedia filesystems. A goal of BBFS is to be extensible so new mechanisms can be incorporated into a stable filesystem model. 12 A methodology for creating user views in database design Veda C. Storey, Robert C. Goldstein September 1988 ACM Transactions on Database Systems (TODS), Volume 13 Issue 3 **Publisher: ACM Press** Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.41 MB) terms, review The View Creation System (VCS) is an expert system that engages a user in a dialogue about the information requirements for some application, develops an Entity-Relationship model for the user's database view, and then converts the E-R model to a set of Fourth Normal Form relations. This paper describes the knowledge base of VCS. That is, it presents a formal methodology, capable of mechanization as a computer program, for accepting requirements from a user, identifying and resolving incons ...

Codes for the Classical Membrane Problem

13

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17	A fast Gibbs sampler for synthesizing constrained fractals Baba C. Vemuri, Chhandomay Mandal October 1996 Proceedings of the 7th conference on Visualization '96				
	Publisher: IEEE Computer Society Press				
	Full text available:  pdf(2.61 MB)  Additional Information: full citation, references, index terms  Publisher Site				

18	Optimization	of custom	MOS	circuits	by transistor	sizina
	Openingation	UI UUSIUIII	14100	UII CUITO		314111

Andrew R. Conn, Paula K. Coulman, Ruud A. Haring, Gregory L. Morrill, Chandu Visweswariah January 1997 Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design

**Publisher: IEEE Computer Society** 

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Optimization of a circuit by transistor sizing is often a slow, tedious and iterative manual process which relies on designer intuition. Circuit simulation is carried out in the inner loop of this tuning procedure. Automating the transistor sizing process is an important step towards being able to rapidly design high-performance, custom circuits. JiffyTune is a new circuit optimization tool that automates the tuning task. Delay, rise/fall time, area and power targets are accommodated. Each (weig ...

**Keywords:** Circuits, transistor sizing, optimization, simulation, gradients.

### 19 Free-form shape design using triangulated surfaces

William Welch, Andrew Witkin

July 1994 Proceedings of the 21st annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index ps(11.44 MB)

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Keywords: Delaunay triangulation, adaptive meshing, fair surface design, functional minimization, polygonal models

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